

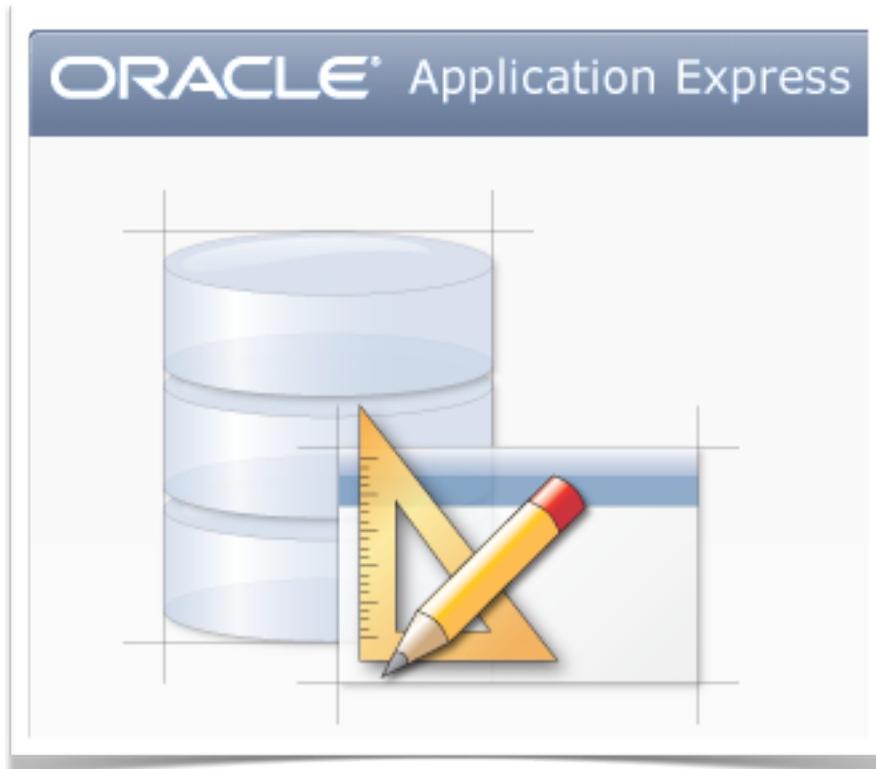
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User Manual

Step by step guide on using UAO database in Oracle
Apex

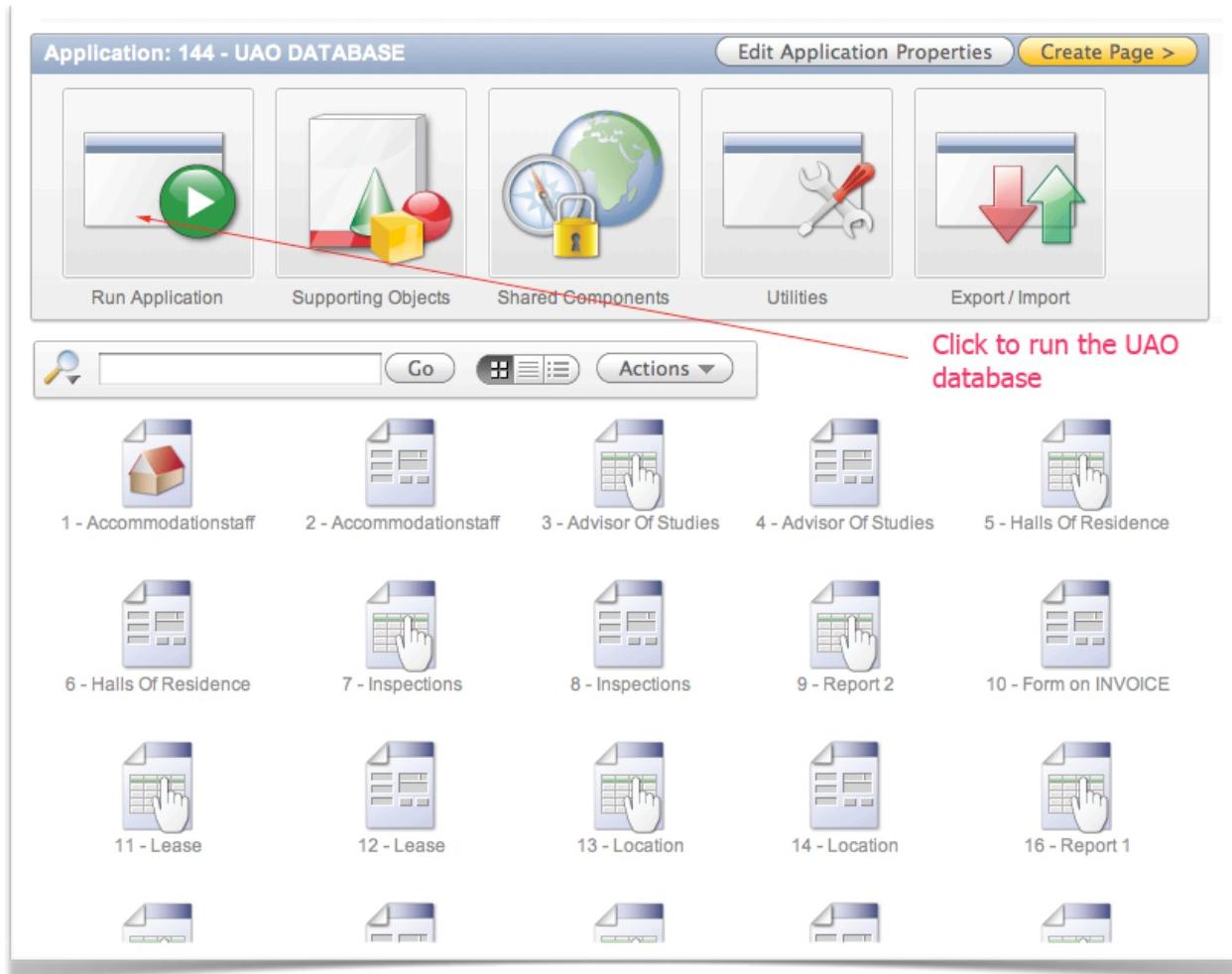
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Final Project: 60-415 (Advanced and
Practical Database System)



Introduction

After the installation process, as mentioned in the previous manual, go ahead and run the UAO database application.



Once the application opens, you will see a window with all your tables in tabular format. The report, which will display some data - if you have already entered using sqlplus, will appear on the body of the screen.

The screenshot shows a web browser window titled "Accommodationstaff". The URL is <http://proton.cspcl.uwindsor.ca:8081/apex/f?p=144:1:29469297111227::::>. The page header includes a "Welcome: BANDARA Logout" link. A red bar at the top contains links: "Accommodationstaff", "Advisor Of Studies", "Halls Of Residence", "Inspections", "Invoice", "Lease", "Location", "Next Of Kin", "Position", "Rooms", "StudentInInspections", and "StudentInfo". Below the header is a toolbar with "Go", "Actions", and a "Create" button (circled in red). The main content area displays a table with the following data:

Staffnumber	Lessenumber	Flatnumber	Name	Address	Dob	Sex	Location	Position
3	999999	1111	-	-	-	-	Hall	-
1989564325	999999	1111	rasika b	121 campbell avenue	01-NOV-10	male	Hall	Hall Manager
1	999999	1111	John Smith	34 Kin Kent ON N9G 3T5	17-SEP-45	M	Hall	Admin Asst
2	888888	2222	Due Wang	12 Yun Kent ON N9G 3T5	23-OCT-65	M	Accommodation Office	Hall Manager
1989564324	999999	1111	Rasika	123 no road	-	M	Hall	Hall Manager

A green bracket on the left side of the table encloses the first five rows. A green bracket on the right side of the table encloses the last row. A purple bracket at the bottom of the table encloses the entire table area. A green bracket at the bottom of the page encloses the text "Reports containing existing data in table "Accommodationstaff"".

To the right of the table, a purple bracket points to the "Create" button with the text "Tables in tabular format". Another purple bracket points to the "Create" button with the text "To create a new record, click the "Create" button.".

At the bottom of the page, there is a navigation bar with links: Home, Application 144, Edit Page 1, Create, Session, Caching, View Debug, Debug, and Show Edit Links.

Figure 1

Create/Insert record

To create/insert a record, click the “Create” button as shown in Figure 1.
The following window will open:

The screenshot shows a web-based application interface for managing accommodation staff. At the top, there's a navigation bar with links like 'Accommodationstaff', 'Advisor Of Studies', 'Halls Of Residence', etc. Below the navigation is a breadcrumb trail: 'Accommodationstaff > Accommodationstaff'. The main area is titled 'Edit ACCOMMODATIONSTAFF'. It contains several input fields: 'Staffnumber' (1989564326), 'Leasenumber' (999999), 'Flatnumber' (1111), 'Name' (Mahmood Chowdhury), 'Address' (401 Sunset Avenue), 'Dob' (10-Nov-10), 'Sex' (Male), 'Location' (Hall), and 'Position' (Hall Manager). There are 'Cancel' and 'Create' buttons at the top right of the form.

Fill out the required fields (in this example, we are using the “Accommodationstaff” table) such as Leasenumber, Flatnumber, Name, etc. To choose the date, click the calendar icon. After all the information have been inputted, click the “Create” button on top right hand side.

The screenshot shows a web-based application interface. At the top, there is a navigation bar with various menu items: Accommodationstaff, Advisor Of Studies, Halls Of Residence, Inspections, Invoice, Lease, Location, Next Of Kin, Position, Rooms, StudentInInspections, and Studentstats. The 'Accommodationstaff' item is highlighted with a red background. On the right side of the header, it says 'Welcome: BANDARA Logout'. Below the header, there is a green banner with the text 'Action Processed.' followed by a close button 'X'. Underneath the banner, there is a toolbar with icons for search, go, actions, and create. The main content area is a table with the following data:

Staffnumber	Leasenumber	Flatnumber	Name	Address	Dob	Sex	Location	Position
3	999999	1111	-	-	-	-	Hall	-
1989564325	999999	1111	rasika b	121 campbell avenue	01-NOV-10	male	Hall	Hall Manager
1989564326	999999	1111	Mahmood Chowdhury	401 Sunset Avenue	10-NOV-10	Male	Hall	Hall Manager
1	999999	1111	John Smith	34 Kin Kent ON N9G 3T5	17-SEP-45	M	Hall	Admin.Ast
2	888888	2222	Due Wang	12 Yun Kent ON N9G 3T5	23-OCT-65	M	Accommodation Office	Hall Manager
1989564324	999999	1111	Rasika	123 no road	-	M	Hall	Hall Manager

At the bottom right of the table, it says '1 - 6'.

If your entries are valid, it will redirect you to the table form (in this case, "Accommodationstaff") and you will see your entries in the report (for our example, StaffNumber: 1989564326) and you will notice a message displaying "Action Processed" with green background above the report.

If for some reason, you have entered an incorrect information in any of the fields in any form, Apex will display an error message.
Let's take an example of Accommodationstaff.

The screenshot shows a web-based application interface for managing staff accommodation. At the top, there's a navigation bar with tabs: 'Accommodationstaff', 'Advisor Of Studies', 'Halls Of Residence', 'Inspections', and 'Inv'. Below the navigation, a breadcrumb trail shows 'Accommodationstaff > Accommodationstaff'. The main area is titled 'Edit ACCOMMODATIONSTAFF'. It contains several input fields: 'Staffnumber' (1989564328), 'Leasenumber' (123436), 'Flatnumber' (1111), 'Name' (Mickey Mouse), 'Address' (123 rankin avenue), 'Dob' (13-Sep-10), 'Sex' (Male), 'Location' (Windsor), and 'Position' (Teacher). The 'Location' and 'Position' fields are highlighted in red, indicating validation errors.

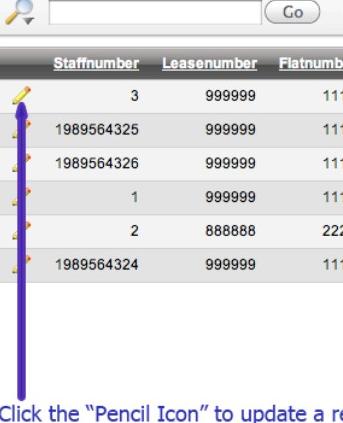
In this example, our location and position fields are incorrect. The UAO database only accepts Location as Hall or Accommodation office and position only accepts Hall Manager, Administrative Assistant or Cleaner. Since we entered Location = Windsor and Position = Teacher, the following error messages will display:

The screenshots show two separate error messages. The first message, located at the top, states: 'ORA-20202: The locations can only be Hall and Accommodation Office. ORA-06512: at "BANDARA.STAFF_LOCATION", line 3 ORA-04088: error during execution of trigger 'BANDARA.STAFF_LOCATION''. The second message, located below it, states: 'ORA-20202: The positions can only be Hall Manager, Administrative Assistant and Cleaner. ORA-06512: at "BANDARA.STAFF_POSITION", line 3 ORA-04088: error during execution of trigger 'BANDARA.STAFF_POSITION''. Both messages are displayed in a red error box with an 'OK' button at the bottom.

To correct the above mistakes, go back to the form, input the proper data into respective fields and click “Create”.

Update Data

If you wish to update a data, all you have to do is click the “pencil icon” and a window will appear that will allow you to change any value of any field.



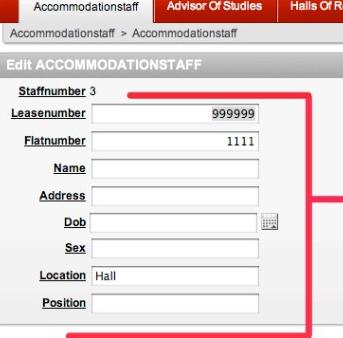
Action Processed. X

Go Actions ▾ Create

Staffnumber	Leasenumber	Flatnumber	Name	Address	Dob	Sex	Location	Position
3	999999	1111	-	-	-	-	Hall	-
1989564325	999999	1111	rasika b	121 campbell avenue	01-NOV-10	male	Hall	Hall Manager
1989564326	999999	1111	Mahmood Chowdhury	401 Sunset Avenue	10-NOV-10	Male	Hall	Hall Manager
1	999999	1111	John Smith	34 Kin Kent ON N9G 3T5	17-SEP-45	M	Hall	Admin.Asst
2	888888	2222	Due Wang	12 Yun Kent ON N9G 3T5	23-OCT-65	M	Accommodation Office	Hall Manager
1989564324	999999	1111	Rasika	123 no road	-	M	Hall	Hall Manager

1 - 6

Click the “Pencil Icon” to update a record.



Welcome: BANDARA Logout

Accommodationstaff Advisor Of Studies Halls Of Residence Inspections Invoice Lease Location Next Of Kin Position Rooms StudentInfoInspections StudentInfo

Accommodationstaff > Accommodationstaff

Edit ACCOMMODATIONSTAFF

Staffnumber 3
Leasenumber 999999
Flatnumber 1111
Name
Address
Dob
Sex
Location Hall
Position

Enter data into the empty field or change information in an existing field.

Cancel Delete Apply Changes

Enter data into the empty fields or change information in an existing field.

The screenshot shows a web-based application interface for managing accommodation staff. At the top, there is a navigation bar with links: Accommodationstaff, Advisor Of Studies, Halls Of Residence, Inspections, Invoice, Lease, Location, Next Of Kin, Position, Rooms, StudentInInspections, and StudentInfo. Below the navigation bar, a breadcrumb trail indicates the current location: Accommodationstaff > Accommodationstaff. The main content area is titled 'Edit ACCOMMODATIONSTAFF'. It contains a form with the following fields:

- Staffnumber:** 3
- Leasenumber:** 999999
- Flatnumber:** 1111
- Name:** Richard Geere
- Address:** 121 Hollywoodland Ave
- Dob:** 01-Nov-10
- Sex:** Male
- Location:** Hall
- Position:** Hall Manager

At the top right of the form, there are buttons for 'Cancel', 'Delete', and 'Apply Changes'.

In this example, we entered data into Name, Address, DOB, SEX, Location and Position fields (as shown in the above picture).

Once done, click “Apply Changes”.

The screenshot shows a report page for 'Accommodationstaff'. At the top, there is a navigation bar with links: Accommodationstaff, Advisor Of Studies, Halls Of Residence, Inspections, Invoice, Lease, Location, Next Of Kin, Position, Rooms, and StudentInInspections. Below the navigation bar, a breadcrumb trail indicates the current location: Accommodationstaff. The main content area displays a table of staff records. The table has the following columns:

Staffnumber	Leasenumber	Flatnumber	Name	Address	Dob	Sex	Location	Position
3	999999	1111	Richard Geere	121 Hollywood Ave	01-NOV-10	Male	Hall	Hall Manager
1989564325	999999	1111	rasika b	121 campbell avenue	01-NOV-10	male	Hall	Hall Manager
1989564326	999999	1111	Mahmood Chowdhury	401 Sunset Avenue	10-NOV-10	Male	Hall	Hall Manager
1	999999	1111	John Smith	34 Kin Kent ON N9G 3T5	17-SEP-45	Male	Hall	Admin.Asst
2	888888	2222	Due Wang	12 Yun Kent ON N9G 3T5	23-OCT-65	MALE	Accommodation Office	Hall Manager
1989564324	999999	1111	Rasika	123 no road	-	M	Hall	Hall Manager

A green banner at the top of the table area says "Action Processed." There are also buttons for 'Go', 'Actions', and 'Create'.

If successful, the “Action Processed” message will appear on top of the report.

Delete/Remove Data

To delete a data from any table, select the table from the tabs, click the “Pencil icon” of the record you wish to delete. A window similar to the update window will appear, and you will see a “Delete” option on top right hand corner. Click “Delete” and you have successfully deleted the desired record.

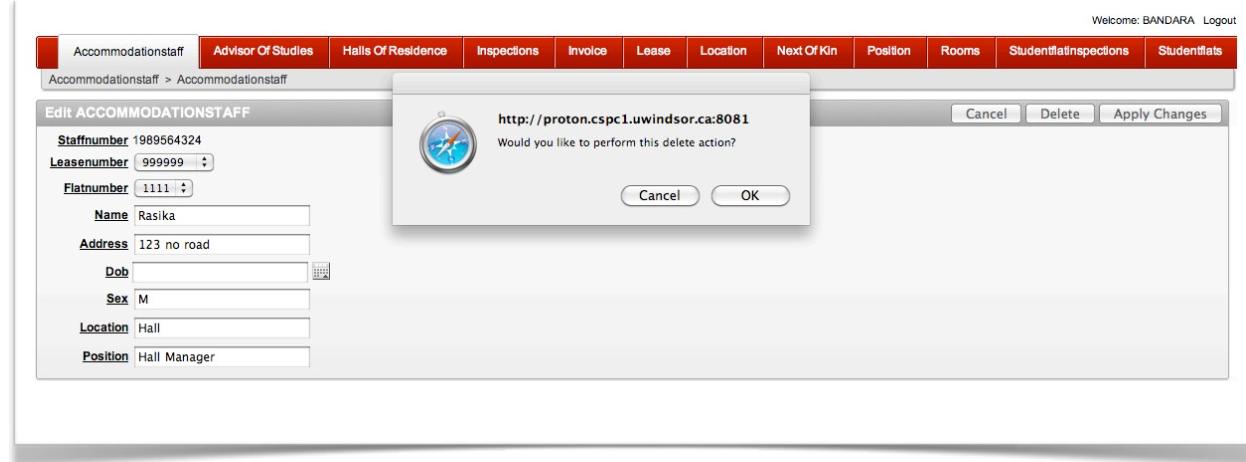
In this example, we wish to delete StaffNumber: 1989564324 from the Accommodationstaff table. By clicking the “Pencil Icon” beside this staffnumber on the Accommodationstaff report, we will get the following screen:

The screenshot shows a web-based application interface. At the top, there is a navigation bar with tabs: Accommodationstaff, Advisor Of Studies, Halls Of Residence, Inspections, Invoice, Lease, Location, Next Of Kin, Position, Rooms, StudentInInspections, and Studentflats. The 'Accommodationstaff' tab is selected. Below the navigation bar, the URL 'Accommodationstaff > Accommodationstaff' is displayed. The main content area is titled 'Edit ACCOMMODATIONSTAFF'. It contains the following data entries:

Staffnumber	1989564324
Leasenumber	999999
Flatnumber	1111
Name	Rasika
Address	123 no road
Dob	(with a calendar icon)
Sex	M
Location	Hall
Position	Hall Manager

At the top right of the edit form, there are three buttons: 'Cancel', 'Delete', and 'Apply Changes'. The 'Delete' button is highlighted with a red border.

Now click on “Delete” button to remove this record from our Accommodationstaff table. You will get a pop-up message confirming the deletion



When clicked “OK”, the record is deleted from the Accommodationstaff table and “Action Processed” message will appear on top of the report.

